

CLAIMS

- 1 1. A method for error processing and reporting during validation of a business
2 document in a client-server environment, the method including:
 - 3 accessing a first self-describing, structured document having a document type;
 - 4 validating the first document against a schema corresponding to the document
5 type;
 - 6 generating a second self-describing, structured document including, for any
7 detected errors,
 - 8 at least one error identifier; and
 - 9 a path specification identifying a node within the primary document
10 corresponding to the detected error;
 - 11 applying a declarative transformation to the first and second documents,
12 producing a user interface character string, including a plurality of
 - 13 path specifications for nodes in the first document; and
 - 14 values for nodes in the first document; and
 - 15 at least one error message corresponding to the at least one error identifier; and
16 transmitting the user interface character string.
- 1 2. The method of claim 1, wherein the schema is compliant with any version of
2 a SOX standard.
- 1 3. The method of claim 2, further including validating the first document against
2 a set of business processing rules and generating a third self-describing, structured
3 document, wherein the declarative transformation is further applied to the third
4 document.

1 4. The method of claim 1, wherein the declarative transformation is compliant
2 with an XSLT standard.

1 5. The method of claim 3, wherein the declarative transformation is compliant
2 with an XSLT standard.

1 6. The method of claim 1, wherein the user interface character string is
2 compliant with an HTML standard.

1 7. The method of claim 3, wherein the user interface character string is
2 compliant with an HTML standard.

1 8. The method of claim 5, wherein the user interface character string is
2 compliant with an HTML standard.

1 9. The method of claim 1, wherein the user interface character string is
2 compliant with an XML standard.

1 10. The method of claim 3, wherein the user interface character string is
2 compliant with an XML standard.

1 11. The method of claim 5, wherein the user interface character string is
2 compliant with an XML standard.

3 12. A method for error processing and reporting during validation of a business
2 document in a client-server environment, the method including:

3 accessing a first self-describing, structured document having a document type;

4 validating the first document against a set of business processing rules applicable
5 to the document type and an intended recipient of the first document;

6 generating a second self-describing, structured document including, for any
7 detected errors,

8 at least one error identifier; and

9 a path specification identifying a node within the primary document
10 corresponding to the detected error;

11 applying a declarative transformation to the first and second documents,
12 producing a user interface character string, including a plurality of
13 path specifications for nodes in the first document; and
14 values for nodes in the first document; and
15 at least one error message corresponding to the at least one error identifier; and
16 transmitting the user interface character string.

1 13. The method of claim 12, wherein the business processing rules are
2 Schematron-compliant.

1 14. The method of claim 12, wherein the declarative transformation is compliant
2 with an XSLT standard.

1 15. The method of claim 13, wherein the declarative transformation is compliant
2 with an XSLT standard.

1 16. The method of claim 12, wherein the user interface character string is
2 compliant with an HTML standard.

1 17. The method of claim 13, wherein the user interface character string is
2 compliant with an HTML standard.

1 18. The method of claim 15, wherein the user interface character string is
2 compliant with an HTML standard.

1 19. The method of claim 12, wherein the user interface character string is
2 compliant with an XML standard.

1 20. The method of claim 13, wherein the user interface character string is
2 compliant with an XML standard.

1 21. The method of claim 15, wherein the user interface character string is
2 compliant with an XML standard.

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